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ABSTRACT

Methods and apparatus, including computer program products, implementing techniques for performing envelope-based computer graphics operations on vector objects in an image. An envelope in an image generally contains an original drawing object. The envelope is a manipulable graphic object defining a coordinate remapping that is applied to generate a resulting drawing object for any original drawing object in the envelope. In one embodiment, the envelope has an interior control point that is an anchor point. User manipulation of the interior control point redefines the coordinate remapping. In another embodiment, a precision variable determines how closely an object in the envelope will follow the envelope when the corresponding resulting object is generated. Additional control points can be added to the original contained object if necessary to achieve the required precision before applying the coordinate remapping. In another embodiment, C1 or C2 continuity at curve anchor points is preserved over envelope manipulations.

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